

Claims

- 5 1. A method for producing an aqueous solution of free
hydroxylamine (HA) using simultaneous countercurrent
treatment of a solution of a HA salt with ammonia or
ammonia water, separation of the HA solution obtained
by distillation into aqueous solutions of HA and a
10 salt fraction under a pressure above the atmospheric
pressure, reconcentration by distillation of the
aqueous HA solution in the countercurrent with a
strip medium in a reactive distillation column with a
liquid-phase evaporator, characterized in that the
15 stripping medium is a mixture of steam and a non-con-
densable inert gas and in that the process tempera-
ture is controlled at a defined pressure by the quan-
tity of non-condensable inert gas at the column
inlet.
- 20 2. The method according to claim 1, characterized in
that nitrogen is used as the non-condensable inert
gas.
- 25 3. The method according to claims 1 and 2, characterized
in that controlling the process temperature by in-
creasing the portion of non-condensable inert gas re-
sults in a drop in temperature and controlling the
process temperature by decreasing the portion of said
30 gas results in an increase in temperature.

4. The method according to one or several of claims 1 through 3, characterized in that the process is performed at column pressures in the range from 1.05 to 2.5 bara, preferably from 1.1 to 1.8 bara.

5. The method according to one or several of claims 1 through 4, characterized in that the weight of the non-condensable inert gas is 0.44 to 5.8 times, preferably 1.8 to 5.4 times the weight of the feeding quantity (aqueous solution of HA salt).